```
(2) TITLE OF INVENTION:    Nuclear Receptor Ligands and Ligand
    TITLE OF INVENTION:    Binding Domains
(3) NUMBER OF SEQUENCES:  16
(4) CORRESPONDENCE ADDRESS:
      ADDRESSEE:  Cooley Godward
      STREET:  Five Palo Alto Square,  3000 El Camino Real
      CITY:  Palo Alto
      STATE:  CA
      COUNTRY:  USA
      ZIP:  94306
(5) COMPUTER READABLE FORM:
      MEDIUM TYPE:  Floppy disk
      COMPUTER:  IBM PC compatible
      OPERATING SYSTEM:  PC-DOS/MS-DOS
      SOFTWARE:  PatentIn Release #1.0,  Version #1.30
(6) CURRENT APPLICATION DATA:
      APPLICATION NUMBER:  US/08/764,870
      FILING DATE:  13-DEC-1996
      CLASSIFICATION:  530
(7) PRIOR APPLICATION DATA:
      APPLICATION NUMBER:  US 60/008,540
      FILING DATE:  13-DEC-1995
(8) PRIOR APPLICATION DATA:
      APPLICATION NUMBER:  US 60/008,543
      FILING DATE:  13-DEC-1995
(9) PRIOR APPLICATION DATA:
      APPLICATION NUMBER:  US 60/008,606
      FILING DATE:  14-DEC-1995
(10) ATTORNEY/AGENT INFORMATION:
      NAME:  Nakamura, Jackie N
      REGISTRATION NUMBER:  35,966
      REFERENCE/DOCKET NUMBER:  UCAL-246/01US
(11) TELECOMMUNICATION INFORMATION:
      TELEPHONE:  (650)843-5000
(2) INFORMATION FOR SEQ ID NO: 16:
      SEQUENCE CHARACTERISTICS:
        LENGTH:  452 amino acids
        TYPE:  amino acid
        STRANDEDNESS:
        TOPOLOGY:  linear
      MOLECULE TYPE:  protein
US-08-764-870-16
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Query Match                    49.5%;  Score 2429;  DB 4;  Length 452;
Best Local Similarity  99.8%;  Pred. No. 1.4e-171;
Matches  451;  Conservative  1;  Mismatches  0;  Indels  0;  Gaps  0:


Qy   472  GGGGGEAGAVAPVGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGPWM  531
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Db     1  GGGGGEAGAVAPVGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGPWM   60

Qy   532  DSYSGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAA  591
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61  DSYSGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDKASGCHYGALTCGSCKVFFKRAA  120

Qy   592  EGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASS  651
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121  EGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASS  180

Qy   652  TTSPTEETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNEL  711
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181  TTSPTEETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNEL  240

Qy   712  GERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPD  771
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241  GERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPD  300

Qy   772  LVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFF  831
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301  LVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFF  360

Qy   832  DELRMNYIKELDRIIACKRRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMV  891
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Qy    61  QQQQQQQQQQQQQQQQQQQETSPRQQQQQQGEDGSPQAHRRGPTGYLVLDEEQQPSQ  120
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Db    58  ------QQQQQQQQQQQQQETSPRQQQQQQGEDGSPQAHRRGPTGYLVLDEEQQPSQ  112

Qy   121  PQSALECHPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAAPSTLSLLGPTFPGLSSCS  180
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   113  PQSALECHPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAAPSTLSLLGPTFPGLSSCS  172

Qy   181  ADLKDILSEASTMQLLQQQQEAVSEGSSGRAREASGAPTSSKDNYLGGTSTISDNAKE  240
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Db   173  ADLKDILSEASTMQLLQQQQEAVSEGSSGRAREASGAPTSSKDNYLGGTSTISDNAKE  232

Qy   241  LCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPAVRPTCAPLAECKGSLLDDS  300
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Db   233  LCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPAVRPTCAPLAECKGSLLDDS  292

Qy   301  AGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSAAAGSSGTLELPSTLSLYKSGALDEAAA  360
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   293  AGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSAAAGSSGTLELPSTLSLYKSGALDEAAA  352

Qy   361  YQSRDYYNFPLALAGPPPPPHPHARIKLENPLDYGSAWAAAAAQCRYGDLASLHGAG  420
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Db   353  YQSRDYYNFPLALAGPPPPPHPHARIKLENPLDYGSAWAAAAAQCRYGDLASLHGAG  412

Qy   421  AAGPGSGSPSAAAASSWHTLFTAEEGQLYGPC---GGGGGGGGGGGGGGGGGGGGGG  477
          ||||||||||||||||||||||||||||||||    |||||||||||||||||||||
Db   413  AAGPGSGSPSAAAASSWHTLFTAEEGQLYGPCGGGGGGGGGGGGGGGGGGGGGGGGE  472

Qy   478  AGAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGPWMDSYSGP  537
          | ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   473  AEAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGPWMDSYSGP  532

Qy   538  YGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKY  597
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   533  YGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKY  592

Qy   598  LCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPTE  657
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   593  LCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPTE  652

Qy   658  ETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLV  717
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   653  ETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLV  712

Qy   718  HVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEY  777
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   713  HVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEY  772

Qy   778  RMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMN  837
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   773  RMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMN  832

Qy   838  YIKELDRIIACKRRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPE  897
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   833  YIKELDRIIACKRRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPE  892

Qy   898  MMAEIISVQVPKILSGKVKPIYFHTQ  923
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Db   893  MMAEIISVQVPKILSGKVKPIYFHTQ  918
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RESULT 2
US-08-764-870-16
; Sequence 16, Application US/08764870
; Patent No. 6236946
; GENERAL INFORMATION:
; APPLICANT: Scanlan, Thomas S
; APPLICANT: Baxter, John D
; APPLICANT: Fletterick, Robert J
; APPLICANT: Wagner, Richard L
; APPLICANT: Kushner, Peter J
; APPLICANT: Apriletti, James W
; APPLICANT: West, Brian

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Db   361 DELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMV 420
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Qy   892 SVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 923
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Db   421 SVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 452
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RESULT 3
US-08-980-115-16
; Sequence 16, Application US/08980115
; Patent No. 6266622
; GENERAL INFORMATION:
;   APPLICANT: Scanlan, Thomas S.
;   APPLICANT: Baxter, John D.
;   APPLICANT: Fletterick, Robert J.
;   APPLICANT: Wagner, Richard L.
;   APPLICANT: Kushner, Peter J.
;   APPLICANT: Apriletti, James W.
;   APPLICANT: West, Brian L.
;   APPLICANT: Shiau, Andrew K.
;   TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS
;   FILE REFERENCE: UCAL-246/02US
;   CURRENT APPLICATION NUMBER: US/08/980,115
;   CURRENT FILING DATE: 1997-11-26
;   EARLIER APPLICATION NUMBER: 08/764,870
;   EARLIER FILING DATE: 1996-12-13
;   EARLIER APPLICATION NUMBER: 60/008,606
;   EARLIER FILING DATE: 1995-12-14
;   EARLIER APPLICATION NUMBER: 60/008,543
;   EARLIER FILING DATE: 1995-12-13
;   EARLIER APPLICATION NUMBER: 60/008,540
;   EARLIER FILING DATE: 1995-12-13
;   NUMBER OF SEQ ID NOS: 17
;   SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 16
;   LENGTH: 452
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: DOMAIN
;   LOCATION: (184)...(437)
;   OTHER INFORMATION: minimal ligand binding domain
US-08-980-115-16

Query Match   49.5%;   Score 2429; DB 4;   Length 452;
Best Local Similarity 99.8%;   Pred. No. 1.4e-171;
Matches 451; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy   472 GGGGGEAGAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGPWM 531
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Qy   532 DSYSGPYGDMRLETARDHVLPIDYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAA 591
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Db   61 DSYSGPYGDMRLETARDHVLPIDYFPPQKTCLICGDKASGCHYGALTCGSCKVFFKRAA 120

Qy   592 EGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASS 651
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   121 EGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASS 180

Qy   652 TTSPTEETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNEL 711
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 TTSPTEETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNEL 240

Qy   712 GERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPD 771
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 GERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPD 300

Qy   772 LVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLFSIIPVDGLKNQKFF 831
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 LVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLFSIIPVDGLKNQKFF 360
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Db   832 DELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMV 891
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Qy   361 DELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMV 420
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Qy   892 SVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 923
             ||||||||||||||||||||||||||||||||
Db   421 SVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 452
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RESULT 4
US-08-764-870-14
; Sequence 14, Application US/08764870
; Patent No. 6236946
; GENERAL INFORMATION:
;   APPLICANT: Scanlan, Thomas S
;   APPLICANT: Baxter, John D
;   APPLICANT: Fletterick, Robert J
;   APPLICANT: Wagner, Richard L
;   APPLICANT: Kushner, Peter J
;   APPLICANT: Apriletti, James W
;   APPLICANT: West, Brian
;   TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand
;   TITLE OF INVENTION: Binding Domains
;   NUMBER OF SEQUENCES: 16
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Cooley Godward
;   STREET: Five Palo Alto Square, 3000 El Camino Real
;   CITY: Palo Alto
;   STATE: CA
;   COUNTRY: USA
;   ZIP: 94306
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/764,870
;   FILING DATE: 13-DEC-1996
;   CLASSIFICATION: 530
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US 60/008,540
;   FILING DATE: 13-DEC-1995
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US 60/008,543
;   FILING DATE: 13-DEC-1995
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US 60/008,606
;   FILING DATE: 14-DEC-1995
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Nakamura, Jackie N
;   REGISTRATION NUMBER: 35,966
;   REFERENCE/DOCKET NUMBER: UCAL-246/01US
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (650)843-5000
; INFORMATION FOR SEQ ID NO: 14:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 933 amino acids
;   TYPE: amino acid
;   STRANDEDNESS:
;   TOPOLOGY: linear
;   MOLECULE TYPE: protein
US-08-764-870-14

Query Match   25.7%;   Score 1261; DB 4;   Length 933;
Best Local Similarity 34.1%;   Pred. No. 6.9e-85;
Matches 346; Conservative 128; Mismatches 318; Indels 224; Gaps 34;

Qy   38 GPRHPEAASAAP---------------------PGA-----------SLLLLQQQQQQQQ 66
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Db   8 GPRAPHVAGGPPSPEVGSPLLCRPAAGPFPGSQTSDTLPEVSAIPISLDGLLFPRPCQGQ 67
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APPLICANT: Fletterick, Robert J.
APPLICANT: Wagner, Richard L.
APPLICANT: Kushner, Peter J.
APPLICANT: Apriletti, James W.
APPLICANT: West, Brian L.
APPLICANT: Shiau, Andrew K.
TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS
FILE REFERENCE: UCAL-246/02US
CURRENT APPLICATION NUMBER: US/08/980,115
CURRENT FILING DATE: 1997-11-26
EARLIER APPLICATION NUMBER: 08/764,870
EARLIER FILING DATE: 1996-12-13
EARLIER APPLICATION NUMBER: 60/008,606
EARLIER FILING DATE: 1995-12-14
EARLIER APPLICATION NUMBER: 60/008,543
EARLIER FILING DATE: 1995-12-13
EARLIER APPLICATION NUMBER: 60/008,540
EARLIER FILING DATE: 1995-12-13
NUMBER OF SEQ ID NOS: 17
SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 14
LENGTH: 933
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: DOMAIN
LOCATION: (659)..(918)
OTHER INFORMATION: minimal ligand binding domain
US-08-980-115-14

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Query Match             25.7%;  Score 1261;  DB 4;  Length 933;
Best Local Similarity   34.1%;  Pred. No. 6.9e-85;
Matches  346;  Conservative  128;  Mismatches  318;  Indels  224;  Gaps   34;

Qy   38 GPRHPEAASAAP---------------------------PGA----------SLLLLQQQQQQQQQ 66
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Db    8 GPRAPHVAGGPPSPEVGSPLLCRPAAGPFPGSQTSDTLPEVSAIPISLDGLLFPRPCCGQ 67

Qy   67 QQQQQQQQQQQQQQQQETSPRQQQQOQGEDGSPQAHRRGPTGYL--VLDEEQQPSQPQSA 124
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Db   68 DPSDEKTQDQQSLSDVEGAYSRAEATRGAGGSSSSPPEKDSGLLDSVLDTLLAPSGPGQS 127

Qy  125 LECHPERGCVPEPGAAVAASKG--LPQQLPAPPDEDDSAAPSTLSLLGPTFP------GL 176
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Db  128 --------QPSPPACEVTSSWCLFGPELP----EDPPAAPATQRVLSPLMSRSGCKVGD 174

Qy  177 SSCSADLKDILSE--ASTMQLL--------------------QQQQQEAVS-EGSSSGRAREASG 218
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Db  175 SSGTAAAHKVLPRGLSPARQLLLPASESPHWSGAPVKPSPQAAAVEVEEEDSSESSEESAG 234

Qy  219 APTSSKDNYLGGTSTISDNAKELCKAVSVSMGLG---------------VEALEHLSPG 262
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Db  235 PLLKGKPRALGGAA--AGGGAAACPPGAAAGGVALVPKEDSRFSAPRVALVEQDAPMAPG 292

Qy  263 EQLRG----DCMYAPLLGV----------------------------PPAVRPTPCA-- 287
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Db  293 RSPLATTVMDFIHVPILPLNHALLAARTRQLLEDESYDGGAGAASAFAPP--RTSPCASS 350

Qy  288 -PLAECKGSLLDDSAGKSTEDTAE---YSPFKGGYTKGLEGESLGCSGSAAAGSSGTLE 342
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Db  351 TPVA--VGDFPDCAYPPDAEPKDDAYPLYSDFQPPALK-IKEEEGAEASARSPRS---- 403

Qy  343 LPSTLSLYKSGALDEAAAYQSRDYYNFPLALAGPPPPPPHPHARIKLENPLDYGSAWA 402
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Db  404 ------YLVAGANPAA------FPDFPL--GPPPPLPP--------------------- 427

Qy  403 AAAAQCRYGDLASLHGAGAGPGSGSPSAAAASSWH---TLFTAE-----EGQLYGPCGG 454
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Db  428 -RATPSRPGE----AAVTAAPASASVSSASSSGSTLECILYKAEGAPPQOGPFAPPPCK 481

Qy  455 GGGGGGGGGGGGGGGGGGGEAGAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSR 514
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Db  482 APGASGCLLPRDGLPSTSASAAAAGA-APALY-APALY------LPQLGYQAAVLKE 532

Qy  515 -VPYPSPTCVKSEMGPWMDSYSGPYGDMRLETARDHVLPIDYFP--PQKTCLICGDEAS 571
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Db  533 GLPQVYPPYL-NYLRPDSEASQSP--------QYSFESLPQKICLLCGDEAS 575

Qy  572 GCHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLG 631
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Db  576 GCHYGVLTCGSCKVFFKRAMEGQHNYLCAGRNDCIVDKIRRKNCPACRLRKCCQAGMVLG 635

Qy  632 ARKLKKLGNLKLKQEEGEASSTTSP----TEETTQKLTVSHIEGYECQPIFLNVLEAIE 685
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Db  636 GRKFKKFNKVRVVRALDAVALPQPLGVNESQALSQRFTFSPGQDIQLTPPLINLLMSIE 695

Qy  686 PGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSW 745
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Db  696 PDVIYAGHDNTKPDTSSSLLTSLNQLGERQLLSVVKWSKSLPGFRNLHIDDQITLIQYSW 755

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Db  756 MSLMVFGLGWRSYKHVSGQMLYFAPDLILNEQRMKESSFYSLCLTMWQIPQEFVKLQVSQ 815

Qy  806 QEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIACKKRNPTSCSRRFYQLTK 865
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Db  816 EEFLCMKVLLLNTIPLEGLRSQTQFEEMRSSYIRELIKAIGLRQKGVVSSSQRFYQLTK 875

Qy  866 LLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAELISVQVPKILSGKVKPIYFH 921
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Db  876 LLDNLHDLVKQLHLYCLNTFIQSRALSVEFPEMMSEVIAAQLPKILAGMVKPLLFH 931
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RESULT 5
US-08-980-115-14
; Sequence 14, Application US/08980115
; Patent No. 6266622
; GENERAL INFORMATION:
; APPLICANT: Scanlan, Thomas S.
; APPLICANT: Baxter, John D.

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Db   482  APGASGCLLPRDGLPSTSASAAAGA-APALY--PALGLNG------LPQLGYQAAVLKE  532
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Qy   515  -VPYPSPTCVKSEMGPWMDSYSGPYGDMRLETARDHVLPIDYFP--PQKTCLICGDEAS  571
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Qy   572  GCHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKFRKRKNCPSCRLRKCYEAGMTLG  631
          |||| ||||||||||| ||||||| || ||||||||||| ||| :||| |
Db   576  GCHYGVLTCGSCKVFFKRAMEGQHNYLCAGRNDCIVDKIRRKNCPACRLRKCCQAGMVLG  635

Qy   632  ARKLKKLGNLKLQEEGASSTTSP-----TEETTQKLTVSHIEGYECQPIFLNVLEAIE  685
          ||  |                 :       ::|:    :|:  |:  :||
Db   636  GRKFKFKFNKVRVRVRALDAVALPQPLGVPNESQALSQRFTFSPGQDIQLPPLINLLMSIE  695

Qy   686  PGVVCAGHDNNQPDSFAALLSLNELGERQLVHVHVKWAKALPGFRNLHVDDQMAVIQYSW  745
          | :||||||||||||||| |||||||:| ||||| ::|||:||||||||||:|  |||
Db   696  PDVIYAGHDNTKPDTSSSLLTSLNQLGERQLLSVVKWSKSLPGFRNLHIDDQITLIQYSW  755

Qy   746  MGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITP  805
          |:|||| |||||| ||:||||||||||| |:  |:|:|| |||||:||||| ||||:|
Db   756  MSLMVFGLGWRSYKHVSGQMLYFAPDLLNEQRMKESSFYSLCLTMWQIPQEFVKLQVSQ  815

Qy   806  QEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTK  865
          :|||||| :|||:|:|:||||||||  |  :|| ||||:||:  || ||:||:||||||
Db   816  EEFLCMKVLLLNTIPLEGLRSQTOFEEMRSSYIRELIKAIGLRQKGVVSSSQRFYQLTK  875

Qy   866  LLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFH  921
          ||:|::|| ||||||||||||:|||||:||||||||||| |:|||||||||||| |
Db   876  LLDNLHDLVKQLHLYCLNFIQSRALSVEFPEMMSEVIAAQLPKILAGMVKPLLFH  931

Qy   921  H  921
          |
Db   361  H  361
```

```
Query Match    22.0%;    Score 1078.5;   DB 4;   Length 984;
Best Local Similarity   32.8%;   Pred No. 2.2e-71;
Matches  300;   Conservative 101;   Mismatches 254;   Indels 259;   Gaps  30;

Qy    98  SPQAHRRGPTGYL------VLDEEQQP-SQPQSALECHPERGCVPEP----GAAVAASK  145
          |  |                |:              |:   |    ::|
Db   238  SPNAENRGSRSHSPAHASNVGSPLSSPLSSMKSSISSPPSHCSVKSPVSSPNNVTLRSSV  297

Qy   146  GLPQQL-------PAPPDEDD------SAAPSTL-SLLGP-------TFPGLSSCSADLKD  185
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Query Match    22.9%;    Score 1127;   DB 6;   Length 363;
Best Local Similarity   56.0%;   Pred. No. 1.5e-75;
Matches  202;   Conservative  72;   Mismatches  85;   Indels   2;   Gaps   1;

Qy   563  CLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRK  622
          :|||||||||||||||  ||||||||||||||| || |||||| :|| :||| ||| |||
Db     1  CLICGDEASGCHYGVLTCGSCKVFFKRAMEGQHNYLCAGRNDCIVDKIRRKNCPACRLRK  60

Qy   623  CYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPT--EETTQKLTVSHIEGYECQPIFLNV  680
          | ||| :||  :|| |  | |:|||  ::|  |     :|:  |:  :||  |   |
Db    61  CCQAGMVLGGRKFKFKFNKVRVMRALDAVALPAPVGIPNESQRITFSPSQEIQLIPPLINL  120

Qy   681  LEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVKWAKALPGFRNLHVDDQMAV  740
          |   || :||||||||||||:|||:|||:|||||||| ||:| |||||||||:|||| |
Db   121  LMSIEPDVIYAGHDNTKPDTSSSLLTSLNQLGERQLLSVVKWKSKSLPGFRNLHIDDQITL  180

Qy   741  IQYSWNMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGW  800
          ||||||:||||| ||||||| ||:||||||||||:| |:  |:|:||  |||||:|||| |
Db   181  IQYSWMSLMVFGLGWRSYKHVSGQMLYFAPDLLNEQRMKESSFYSLCLTMWQIPQEFVK  240

Qy   801  LQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRF  860
          ||:|   :|||| ::|||:|:|:||||||||  |||| ||| ::|:  ::|| ||:||:
Db   241  LQVSQEEFLCMKVLLLNTIPLEGLRSQSQFEEMRSSYIRELIKAIGLRQKGVVSSSQRF  300

Qy   861  YQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYF  920
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;  TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS
;  FILE REFERENCE: UCAL-246/02US
;  CURRENT APPLICATION NUMBER: US/08/980,115
;  CURRENT FILING DATE: 1997-11-26
;  EARLIER APPLICATION NUMBER: 08/764,870
;  EARLIER FILING DATE: 1996-12-13
;  EARLIER APPLICATION NUMBER: 60/008,606
;  EARLIER FILING DATE: 1995-12-14
;  EARLIER APPLICATION NUMBER: 60/008,543
;  EARLIER FILING DATE: 1995-12-13
;  EARLIER APPLICATION NUMBER: 60/008,540
;  EARLIER FILING DATE: 1995-12-13
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
;
;  SEQ ID NO 15
;  LENGTH: 984
;  TYPE: PRT
;  ORGANISM: Homo sapiens
;  FEATURE:
;  NAME/KEY: DOMAIN
;  LOCATION: (695)..(969)
;  OTHER INFORMATION: minimal ligand binding domain

US-08-980-115-15
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Query Match             22.0%;  Score 1078.5;  DB 4;  Length 984;
Best Local Similarity   32.8%;  Pred. No. 2.2e-71;
Matches   300;  Conservative 101;  Mismatches 254;  Indels 259;  Gaps  30;
```

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Qy    98  SPQAHRRGPTGYL------VLDEEQQP-SQPQSALECHPERGCVPEP--:-GAAVAASK  145
          ||  ||           :  ||| :  :     :       : ::|  :  :|
Db   238  SPNAENRGSRSHSPAHASNVGSPLSSPLSSMKSSISSPPSHCSVKSPVSSPNNVTLRSSV  297

Qy   146  GLPQQL-------PAPPDEDD-----SAAPSTL-SLLGP------TFPGLSSCSADLKD  185
           :| ||        :  : :     :  | |  |  :| |       ::  | :|
Db   298  SSPANINNSRCSVSSPSNTNNRSTLSSPAASTVGSICSPVNNAFSYTASGTSAGSSTLRD  357

Qy   186  ILSEASTMQLLQQQ----QQEAVSEGSSSGRA-----REASGAPTSSKDNYLGGT  231
          || |||     :       ||| : : : :|           :||  ||||  :||
Db   358  VVPSPDTQEKGAQEVPFPKTEEVESAISNGVTGQLNIVQYIKPEPDGAFSSS---CLGGN  414

Qy   232  STISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTPCAPLAE  291
          : |   | |  :| :| |    :   :  | :  || | :     : ::
Db   415  SKINSDS--------SFSVPIKQESTKHSCSGTSFKGN-----------PTVNPFP-----  451

Qy   292  CKGSLLDDSAGKSTEDTAEY--SPFKGGYTKGLEGESLGCSGAAAGSSGTLELPSTLSL  349
          |:|||||  : :          || |  |      :   |   : ::||||  :|:|
Db   452  ---FMDGSYFSFMDDKDYYSLSGILGPVPGFDG---NCEGS-----------------  487

Qy   350  YKSGALDEAAAYQSRDYYNFPLALAGPPPPPPPHPHARIKLENPLDYGSAWAAAAAQCR  409
           : |           ::                             : ||
Db   488  --------------------------------------GFPVGIKQEP----------DDGS  501

Qy   410  YGDLASLHGAGAAGPCSGSPSAAAASSWHTLFTAEEGQLYGPCGGGGGGGGGGGGGG  469
          | | :||  |  | |   |  :  :| |
Db   502  YYPEASIPSSAIVGVNSG------GQSFHY------------------------  525

Qy   470  GGGGGGGEAGAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGP  529
                  :|  |  ||| : :|            |:|:| | |:|  : :||   ||
Db   526  ------RIGAQGTISLSRSARDQSFQH----------LSSFP-PVNTLVES-----  559

Qy   530  WMDSYSGPYGDMRLETARDHVLPIDYYFP-------------PQKTCLICGDEASG  572
           |   |          :|  |  :|  |||             ||||||||||||||
Db   560  WKS-----HGD--LSSRRSDGYPVLEYIPENVSSSTLRSVSTGSSRPSKICLVCGDEASG  612

Qy   573  CHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGA  632
          |||| ||||||||||||||| :  ||| :|| |||:||||||||:||| |||: |: ||
Db   613  CHYGVVTCGSCKVFFKRAVEGQHNYLCAGRNDCIIDKIRRKNCPACRLQKCLQAGMNLGA  672

Qy   633  RKLKKLGNLK-LQEEGEASS----------TTSPTEETT  667
          ||:|||| || |:  :|::|           : |:|||
Db   673  RKSKKLGKLKGIHEEQPQQQQPPPPPPQQSPEEGTTYIAPAKEPSVNTALVPQLSTISR  732
```

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Db   298  SSPANINNSRCSVSSPSNTNNRSTLSSPAASTVGSICSPVNNAFSYTASGTSAGSSTLRD  357
          :|| :| :| |   |  :  :
Qy   186  ILSEASTMQLLQQQ----QQEAVSEGSSSGRA-----REASGAPTSSKDNYLGGT  231
          :: |
Db   358  VVPSPDTQEKGAQEVPFPKTEEVESAISNGVTGQLNIVQYIKPEPDGAFSSS---CLGGN  414
          || ||     :   |
Qy   232  STISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTPCAPLAE  291
          : :   :
Db   415  SKINSDS--------SFSVPIKQESTKHSCSGTSFKGN-----------PTVNPFP-----  451
          :| ::
Qy   292  CKGSLLDDSAGKSTEDTAEY--SPFKGGYTKGLEGESLGCSGAAAGSSGTLELPSTLSL  349
          |:|||||  : :
Db   452  ---FMDGSYFSFMDDKDYYSLSGILGPVPGFDG---NCEGS-----------------  487
          :| :: |:
Qy   350  YKSGALDEAAAYQSRDYYNFPLALAGPPPPPPPHPHARIKLENPLDYGSAWAAAAAQCR  409
           : ||
Db   488  --------------------------------------GFPVGIKQEP----------DDGS  501
             :
Qy   410  YGDLASLHGAGAAGPCSGSPSAAAASSWHTLFTAEEGQLYGPCGGGGGGGGGGGGGG  469
          | |  ||
Db   502  YYPEASIPSSAIVGVNSG------GQSFHY------------------------  525
             ::
Qy   470  GGGGGGGEAGAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGP  529
               :|  |  ||| : :|
Db   526  ------RIGAQGTISLSRSARDQSFQH----------LSSFP-PVNTLVES-----  559
          :|: ||||:||||||||||
Qy   530  WMDSYSGPYGDMRLETARDHVLPIDYYFP-------------PQKTCLICGDEASG  572
           |
Db   560  WKS-----HGD--LSSRRSDGYPVLEYIPENVSSSTLRSVSTGSSRPSKICLVCGDEASG  612
          |||| ||||||||||||||
Qy   573  CHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGA  632
          |||| ||||||||||||||| :  ||| :|| |||:||||||||:||| |||: |: ||
Db   613  CHYGVVTCGSCKVFFKRAVEGQHNYLCAGRNDCIIDKIRRKNCPACRLQKCLQAGMNLGA  672
           ||:|||| || |:  :|::|
Qy   633  RKLKKLGNLK-LQEEGEASS----------TTSPTEETT  667
          ||:|||| || |:  :|::|
Db   673  RKSKKLGKLKGIHEEQPQQQQPPPPPPQQSPEEGTTYIAPAKEPSVNTALVPQLSTISR  732
Qy   668  IEGYECOPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALP  727
Db   733  ---ALTPSPVMVLENIEPEIVYAGYDSSKPDTAENLLSTLNRLAGKQMIQVVKWAKVLP  788
Qy   728  GFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQ  787
Db   789  GFKNLPLEDQITLIQYSWMCLSSFALSWRSYKHTNSQFLYFAPDLVFNEEKMHQSAMYEL  848
Qy   788  CVRMRHLSQEFGWLQITPQEFLCMKALLFSIIPVDGLKNQKFFDELRMNYIKELDRIIA  847
Db   849  CQGMHQISLQFVRLQLTFEEYTIMKVLLLSTIPKDGLKSQAAFEMRTNYIKELRKMVT  908
Qy   848  CKRKNPTSCSRRFYQLTKLLDSVQPTARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQV  907
Db   909  KCPNNSGQSWQRFYQLTKLLDSMHDLVSDLLEFCFYTFRESHALKVEFPAMLVEIISDQL  968
Qy   908  PKILSGKVKPIYFH  921
Db   969  PKVESGNAKPLIFH  982
```

```
RESULT  8
US-08-980-115-15
;  Sequence 15, Application US/08980115
;  Patent No. 6266622
;  GENERAL INFORMATION:
;  APPLICANT: Scanlan, Thomas S.
;  APPLICANT: Baxter, John D.
;  APPLICANT: Fletterick, Robert J.
;  APPLICANT: Wagner, Richard L.
;  APPLICANT: Kushner, Peter J.
;  APPLICANT: Apriletti, James W.
;  APPLICANT: West, Brian L.
;  APPLICANT: Shiau, Andrew K.
```

```
Qy   668 IEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALP 727
             : || |||| ||| ||::::||: :||::|| :::|| ||||||| ||
Db   733 ---ALTPSPVMVLENIEPEIVIAGYDSSKPDTAENLLSTLNRLIAGKQMIQVVKWAKVLP 788

Qy   728 GFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQ 787
             ||:|| .:|| :| ||||| || :|: |||||||||: ||:: ||
Db   789 GFKNLPLEDQITLIQYSWMCLSSFALSWRSYKHTNSQFLYFAPDLVFNEEKMHQSAMYEL 848

Qy   788 CVRMRHLSQEFGWLQITPQEFLCMKALLFSIIPVDGLKNQKFFDELRMNYIKELDRIIA 847
             || :| .:| |:||||: | ||||:| ::|| |||||||: |: ||
Db   849 CQGMHQISILQFVRIQLTFEEYTIMKVLLLLSTIPKDGLKSQAAFEEMRTNYIKELRKMVT 908

Qy   848 CKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQV 907
             :||||||||: . :|||||||::. :|:|||| .: ||||||| ||||
Db   909 KCPNNSGQSWQRFYQLTKLLDSMHDLVSDLLEPCFYIFRESHALKVFPPAMLVEIISDQL 968

Qy   908 PKILSGKVKPIYFH 921
             | :|||||| ||||
Db   969 PKVESGNAKPLIYFH 982
```

```
Qy Match
Best Local Similarity    21.7%;    Score 1065;  DB 1;  Length 795;
Matches  314;  Conservative 110; Mismatches 268; Indels 288; Gaps  35;
              Similarity 32.0%; Pred. No. 1.6e-70;

Qy    20 RGAFQNLFQSVR---EVIQNPGPRHPEAASAAPPGASLLL------QQQQQQQQQQQQQQ 68
            ::|:|: |                          |:|||||||
Db    24 RGSVMDFYKSLRGGATVKVSASSPSVAAASQADSKQQRILLDFSKGSTSNVQQRQQQQQQ 83

Qy    69 QQQQQQQQQQQQQETSP---------RQQQQQQGED-GSPQAHR----RGPTGYIVL 112
```

```
Db    84 ||||||||||||
         QQQQQQQQQQQQPGLSKAVSLSMGLYMGETETKVMGNDLGYPQQGQLGLSSGETDFRLL 143

Qy   113 DE-----EQQPSQPQSALECHEPRGCVPEPGAVAASKGLPQQLPAPPDEDDSAAPSTLS 167
            :|:    :|:|
Db   144 EESIANLNRSTSVPENPKSSTSATGC---------------------ATPTEKE-- 176

Qy   168 LLGPTFPGLSSCSADLKDILSEASTMQLLQQQQEAVSEGSSSGRAREASGAPTSSKDNY 227
            ||:    :|||       | |:||
Db   177 ----FPKTH------SDASS----EQQNRKSQTGINGG---------------SVKLY 205

Qy   228 LGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTPCA 287
            |||| | : ||               |
Db   206 PTDQSTF------DLLKDLEFSAG----------SPSKDTNESPWRSDLL-----IDENLLS 246

Qy   288 PLA-------ECKGSLLDDSAG--KSTEDTAEYSP----------------FKGG 317
            |||
Db   247 PLAGEDDPFLLEGNTNEDCKPLILPDTKPKIKDTGDTILSSPSSVALPQVKTEKDDFIEL 306

Qy   318 YTKG-LEGESLG--CSGSAAAGSSGTLELPSTLS----------LYKSGA--------LDEAAAY 361
            |::|    |:||:: |::|    |: |:   |:
Db   307 CTPGVIKQEKLGPVYCQ----ASFSGTNIIGNKMSAISVHGVSTSGGQMYHYDMNTASLS 362

Qy   362 QSRDYINFPLALAGPPPPPHPHARIKLENPLDYGSAWAAAAQCRYGDLASLHGAGA 421
                                                    :|:
Db   363 QQQD--QKPVFNVIPPIP--------VGSEN---------W------W---NRCQ-- 388

Qy   422 AGPGSGPSAAASSSWHTLFTAEEGQLYGPCPGGGGGGGGGGGGGGGGGGGGEAGAV 481
            |||                             :|:
Db   389 ---GSGEDSLITSL---------GALNFP-------------------------GRSV 408

Qy   482 APYGYTRPPQGLAGQESDFTAPDVWPGGMVSRVPVPSPTCVKSEMGPWMDSYSGPYGDM 541
            ||:|       | | ::|
Db   409 FSNGYSSP-----GMRPDVSSP------------------PS----------SSSAATG-- 434

Qy   542 RLETARDHVLPIDYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYLCAS 601
                                          |||||||||||||||||||||||||||
Db   435 ---------------------PPPKLCLVCSDEASGCHYGVLTCGSCKVFFKRAVEGQHNYLCAG 478

Qy   602 RNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPTEETTQ 661
            |||||||||||||::||:|||::||| ||||||| |||||||::||:
Db   479 RNDCIIDKIRRKNCPACRYRKCLQAGMNLEARKTKK---KIKGIQQATAGVSQDTSENP 534

Qy   662 KLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVK 721
            |::    |||                 |::|||| ||| |||||||||||||||||||
Db   535 NKTIVPAALPQLTPTLVSLLEVIEPEVLYAGYDSSVPDSAWRIMTLNMLGGRQVIAAVK 594

Qy   722 WAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHK 781
            ||||    :|: ||||||::|:  |||:||||:|||:: ||:|||||||:
Db   595 WAKAILGLRNLHLDDQMTLLQYSWMFLMAFALGWRSYRQSSGNLLCFAPDLIINEQRMSL 654

Qy   782 SRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKE 841
            |||:||     ||:| :|| : :::|:: .| :|| ||||||||||||| ||:||||:|
Db   655 PCMYDQCKIHMLFVSSELQRIQVSYEEYLCMKTLLLLSSVPKEGLKSQELFDEIRMTYIKE 714

Qy   842 LDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAE 901
            || :|| ||||||||:||||||||||||: :|||| .|:| ||||||:|||||::||:
Db   715 LGKAIVKREGNSSQNWQRFYQLTKLLDSMHEVVENLLTYCFQTFLDKTM-SIEFPEMLAE 773

Qy   902 IISVQVPKILLSGKVKPIYFH 921
            ||: |: || :||:|||:|||
Db   774 IITNQIPKYSNGNIKKLLFH 793
```

```
APPLICANT: Kushner, Peter J
APPLICANT: Apriletti, James W
APPLICANT: West, Brian
TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand
TITLE OF INVENTION: Binding Domains
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
  ADDRESSEE: Cooley Godward
  STREET: Five Palo Alto Square, 3000 El Camino Real
  CITY: Palo Alto
  STATE: CA
  COUNTRY: USA
  ZIP: 94306
COMPUTER READABLE FORM:
  MEDIUM TYPE: Floppy disk
  COMPUTER: IBM PC compatible
  OPERATING SYSTEM: PC-DOS/MS-DOS
  SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/08/764,870
  FILING DATE: 13-DEC-1996
  CLASSIFICATION: 530
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 60/008,540
  FILING DATE: 13-DEC-1995
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 60/008,543
  FILING DATE: 13-DEC-1995
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 60/008,606
  FILING DATE: 14-DEC-1995
ATTORNEY/AGENT INFORMATION:
  NAME: Nakamura, Jackie N
  REGISTRATION NUMBER: 35,966
  REFERENCE/DOCKET NUMBER: UCAL-246/01US
TELECOMMUNICATION INFORMATION:
  TELEPHONE: (650)843-5000
INFORMATION FOR SEQ ID NO: 13:
  SEQUENCE CHARACTERISTICS:
  LENGTH: 777 amino acids
  TYPE: amino acid
  STRANDEDNESS:
  TOPOLOGY: linear
  MOLECULE TYPE: protein
US-08-764-870-13

Query Match        21.2%; Score 1042; DB 4; Length 777;
Best Local Similarity    32.6%; Pred. No. 8e-69;
Matches 298; Conservative 95; Mismatches 255; Indels 266; Gaps 31;

Qy  121 PQSALECHIPERGCVPE------PGAAVAASKGLPQQLPA-----------------153
            |  |    ||  |    ||   |
Db   15 PSSVLA--QERGDVMDFYKTLRGGATVKVSASSPSLAVASQSDSKQRRLLVDFPKGSVSN 72

Qy  154 --PPDEDDSAAPSTLSLLGPT--------FP------GLSSCSADLKDILSEASTMQLL 196
          ||        |||| |   |       ||      |    |  ||  ||  |
Db   73 AQQPDLSKAVSLSMGLXMGETETKVMGNDLGFPQQGQISLSSGETDLK--LLEESIANL- 129

Qy  197 QQQQQEAVSEGSSSGRAREASGAPT-------SSKDNYL-GGTSTISDNAK------239
             |      |  |||  |     ||     |:   |   | | | |
Db  130 --NRSTSVPENPKSSASTAVSAAPTEKEFPKTHSDVSSEQQHLKGQTGTNGGNVKLLYTTD 187

Qy  240 ----ELCKAVSVSMGLGVEALEHLSPGEQL------RGD------CMYAPLLGVPPAVRPT 284
            ||  |     |  | | |   |           |        | | : | |
Db  188 QSTFDILQDLEFSSG---------SPGKETNESPWRSDLLIDENCLLSPLAGE-------231

Qy  285 PCAPLAECKGSLLDDS---AGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSAAAGSSGTL 341
            |          ||                                   ||   : |
Db  232 ------------DDSFILEGNSNED------------------CK-------PL 248

Qy  342 ELPSTLSLYKSGALDEAAAYQSRDYYNFPLALAGPPPPPPPHPHARIKLENPLDYGSAW 401
           |  |                                            ::  |
```

```
Db  249 ILPDTKPKIKD-----------NGDLVLSSPSNVTLP-----QVKTEKEDFIELCT 288
Qy  402 AAAAQCRYGDL--ASLHGAGAAGPGSGSPSAAASSWHTLFTAFEGQLYPGCGGGGG 458
Db  289 PGVIKQEKLGTVYCQASFPGANIIG-----NKMSAISVHGVSTS----------327
Qy  459 GGGGGGGGGGGGGGGEAGAVAPYGYTRPPQGLAGQESDFTAPDV-------W-506
Db  328 -------YHYDMNTASLSQQQDQKPIFNVIPPIPVGSENWNR 366
Qy  507 ------YPGGMVSRVPYPSPTCVKSEMGPWMDSYSGPYGDMRLETARDHV----550
Db  367 CQGSGDDNLTSLGTLNFPGRTVFSNGYSSPS----MRP-DVSSPPSSSSTATTG----415
Qy  551 LPIDYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKF 610
Db  416 ------PPPKLCLVCSDEASGCHYGVLTCGSCKVFFKRAVEGQHNYLCAGRNDCIIDKI 468
Qy  611 RRKNCPSCRLRKCYEAGMTLGARKLKKIGNLKLQEEGEASSTTSPTEETTQ--KLTVSH 667
Db  469 RRKNCPACRYRKCLQAGMNLEARKTKK------KIKGIQQATTGVSQETSENPGNKTIVP 522
Qy  668 IEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALP 727
Db  523 ATLQLTPLVSLLEVIEPEVLYAGYDSSVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIP 582
Qy  728 GFRNLHVDDQMAVLQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQ 787
Db  583 GFRNLHLDDQMTLLQYSWMFLMAFALGWRSYRQSSANLLCFAPDLIINEQRMTLPCMYDQ 642
Qy  788 CVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIA 847
Db  643 CKHMLYVSSELHRLQVSTEEYLCMKTLLLSSVPKDGLKSQELFDEIRMTYIKELGKAIV 702
Qy  848 CKRKNPTSCSRRFYQLTKLLDSVQPIARELHQTFDLLIKSHMVSVDFPEMMAEIISVQV 907
Db  703 KREGNSSQNWQRFYQLTKLLDSMHEVENLLNYCFQTFLDKTM-SIEFPEMLAEIITNQI 761

Qy  908 PKILSGKVKPIYFH 921
Db  762 PKYSNGNIKKILFH 775
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RESULT 11
US-08-980-115-13
; Sequence 13, Application US/08980115
; Patent No. 6266622
; GENERAL INFORMATION:
; APPLICANT: Scanlan, Thomas S.
; APPLICANT: Baxter, John D.
; APPLICANT: Fletterick, Robert J.
; APPLICANT: Wagner, Richard L.
; APPLICANT: Kushner, Peter J.
; APPLICANT: Apriletti, James W.
; APPLICANT: West, Brian L.
; APPLICANT: Shiau, Andrew K.
; TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS
; FILE REFERENCE: UCAL-246/02US
; CURRENT APPLICATION NUMBER: US/08/980,115
; CURRENT FILING DATE: 1997-11-26
; EARLIER APPLICATION NUMBER: 08/764,870
; EARLIER FILING DATE: 1996-12-13
; EARLIER APPLICATION NUMBER: 60/008,606
; EARLIER FILING DATE: 1995-12-14
; EARLIER APPLICATION NUMBER: 60/008,543
; EARLIER FILING DATE: 1995-12-13
; EARLIER APPLICATION NUMBER: 60/008,540
; EARLIER FILING DATE: 1995-12-13
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 13
; LENGTH: 777
; TYPE: PRT
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;    ORGANISM: Homo sapiens
;    FEATURE:
;    NAME/KEY: DOMAIN
;    LOCATION: (506)..(762)
;    OTHER INFORMATION: minimal ligand binding domain
US-08-980-115-13

Query Match         21.2%;   Score 1042; DB 4;  Length 777;
Best Local Similarity 32.6%;  Pred. No. 8e-69;
Matches  298; Conservative  95; Mismatches  255; Indels  266; Gaps  31;

Qy    121 PQSALECHPERGCVPE------PGAAVAASKGLPQQLPA------------- 153
              | ||||:  ||:||| ||  |:||:
Db     15 PSSVLA--QERGDVMDFYKTLRGGATVKVSASSPSLAVASQSDSKQRRLLVDFPKGSVSN 72

Qy    154 --PPDEDDSAAPSTLSLLGPT------FP-----GLSSCSADLKDILSEASTMOLL 196
             :  ||||||  |  ||||| |      ||       | :||
Db     73 AQQPDLSKAVSLSMGLIYMGETETKVMGNDLGFPQOGQISLSSGETDLK--LLEESIANL- 129

Qy    197 QQQQEAVSEGSSSGRAREASGAPT-------------SSKDNYL-GGTSTISDNAK---- 239
                                                  | || :  || :|
Db    130 --NRSTSVPENPKSSASATVSAAPTEKEFPKTHSDVSSEQQHLKGQTGTNGGNVKLYTTD 187

Qy    240 ----ELCKAVSVSMGLGVEALEHLSPGEQL-----RGD------CMYAPLLGVPPAVRPT 284
                  :|:   |||: |             |||:  |:  ||:
Db    188 QSTFDILQLDLEFSSG-------SPGKETNESPWRSDLLIDENCLLSPLAGE-------- 231

Qy    285 PCAPLAECKGSLLDDS--AGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSAAGSSGTL 341
              |  | :  | |:     ||:|:  ||       |  |||: | |:: ||||
Db    232 ---------------DDSFLLEGNSNED---------------CK------PL 248

Qy    342 ELPSTLSLYKSGALDEAAAYQSRDYYNFPLALAGPPPPPHPHARIKLENPLDYGSAW 401
              :|        | :||    :|:  :|      |  | :  |     | |:
Db    249 ILPDTKPKIKD------------------NGDLVLSSPSNVTLP-----QVKTEKEDFIELCT 288

Qy    402 AAAAAQCRYGDL--ASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEQLYGPCGGGGGG 458
                 |  | :|      : | :  :|| :  |  | :  :
Db    289 PGVIKQEKLGTVYCQASFPGANIIG------NKMSAISVHGVSTS--------------- 327

Qy    459 GGGGGGGGGGGGGGGEAGAVAPYGYTRPPGQLAGQESDFTAPDV----------W---- 506
              | ||                           |  ||  |             |
Db    328 --------GGQM------YHYDMNTASLSQQQDQKPIFNVIPPVGSENWNR 366

Qy    507 -----YPGGMVSRVPVPSPTCVKSEMGPWMDSYSGPYGDMRLETARDHV 550
                   |  |  :| |:  | |||  |  | :  | ||  || | |||
Db    367 CQGSGDDNLTSLGTLNFPGRTVFSNGYSSPS------MHP--DVSSPPSSSSTATTG---- 415

Qy    551 LPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKF 610
                    | | ||||||||:||||||||||||||||||||||:||||||||||||||
Db    416 ----------PPPKLCLVCSDEASGCHYGVLTCGSCKVFFKRAVEGQHNYLCAGRNDCIIDKI 468

Qy    611 RRKNCPSCRLRKCYEAGMTLGARKLKKLIGNLKLQEEGEASSTTSPPTEETTQ---KLTVSH 667
              ||||||||||:||||||||||||||||||||||||:|||||||||| |: |||| ||||||
Db    469 RRKNCPACRYRKCLQAGMNLEARKTKK------KIKGIQQATTGVSQETSENPGNKTIVP 522

Qy    668 IEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSLNELGERQLVHVVKKAKALP 727
              |:|||||||||:|||||||||||||||||| |||:||||||| ||||:|||:|||||||||
Db    523 ATLPQLTPLVSLLEVIEPEVLYAGTDSSVPDSTWRIMTLNMLGGRQVIAAVKWAKAIP 582

Qy    728 GFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQ 787
              |||||: ||| :  ||||:||||||:|||: : |:| |||:|||  :| ||||:|| |
Db    583 GFRNLHLDDQMTLQYSWMFLMAFALGWRSYRQSSANLLCFAPDLIINEQRMTLPCMYDQ 642

Qy    788 CVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIA 847
              | | |||:|||| |||| ||||||||||||||:  ||||:|||:||||||||||| :|
Db    643 CKHMLYVSSELHRLQVSYEEYLCMKTLLLLSSVPKDGLKSQELFDEIRMTYIKELGKAIV 702

Qy    848 CKRKNPTSCSRRPYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQV 907
              ||:|||  ||:| ||||||||:|:|||:|||||| :||||||||||||||||:|:|:|
Db    703 KREGNSSQNWQRFYQLTKLLDSMHEVVENLLNVCFQTFLDKTM-SIEFPEMLAEIITNQI 761

Qy    908 PKILSGKVKPIYFH 921
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Db    762 PKYSNGNIKKLLFH 775

RESULT   12
5223606-7
;Patent No. 5223606
;         APPLICANT: BLAUDIN DE THE, HUGHES;MARCHIO, AGNES;TIOLLAIS,
;PIERRE;DEJEAN, ANNE
;         TITLE OF INVENTION: STEROID/THYROID HORMONE RECEPTOR-RELATED
;PROTEIN INAPPROPRIATELY EXPRESSED IN HUMAN HEPATOCELLULAR CARCINOMA
;         NUMBER OF SEQUENCES: 11
;         CURRENT APPLICATION DATA:
;         APPLICATION/NUMBER: US/07/134,130
;         FILING DATE: 17-DEC-1987
;         PRIOR APPLICATION DATA:
;SEQ ID NO:7:
;         LENGTH: 356
5223606-7

Query Match         19.5%;   Score 959.5; DB 6;  Length 356;
Best Local Similarity 52.1%;  Pred. No. 3.4e-63;
Matches  189; Conservative  62; Mismatches  99; Indels  13; Gaps  6:

Qy    563 CLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRK 622
              |:|:|||||||||| ||||||||||||||||:  | |||||||||| |||||| |:
Db      1 CLVCSDEASGCHYGVLTCGSCKVFFKRAVEGQHNYLCAGRNDCIIDKIRRKNCPACRYRK 60

Qy    623 CYEAGMTLGARKLKKLIGNLKLQEEGEASSTTSPTEETTQ---KLTVSHIEGYECQPIFLN 679
              | |||||||||||||||||||:|||||||||||:| :        ::|:||||||||||||
Db     61 CLQAGMNLEARKTKK------KIKGIQQATTGVSQETSENPGNKTIVPATLPQLTPTLVS 114

Qy    680 VLEAIEPGVVCAGHDNNQPDSFAALLSLNELGERQLVHVVKKAKALPGFRNLHVDDQMA 739
              ||:|||||:||||| | ||||:|||||||||||||:||||::|| ||||||||:||| |
Db    115 LLEVIEPEVLYAGTDSSVPDSTWRIMTLNMLGGRQVIAAVKWAKAIPGFRNLHLDDQNT 174

Qy    740 VIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFG 799
              :||||||:||||||:|||: : |:|||||:|||  :| ||||:|| ||  ||||||::|
Db    175 LLQYSWMFLMA-ALGWRSYRQSSANLLCFAPDLIINEQRMTLPCMDQCKHMLYVSSELH 233

Qy    800 WLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRITACKRKNPTSCS-R 858
              ||:  || |||| ||||||:  |||||:|||:||||||||||| :|:||:|||  |||:
Db    234 RLQVSYEEYLCMKYLLLLSSVPKDGLKSQELFDEIRMTYIKELGKAIV-KREGLSSONWQ 292

Qy    859 RFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPI 918
              ||||||||||:|:||:|||||| :||||||||||||||||||:|:|:|
Db    293 RFYQLTKLLDSMHEVENLLNVCFQTFLDKTM-SIEFPEMLAEIITNQIPKYSNGNIKKL 351

Qy    919 YFH 921
              |:|
Db    352 LFH 354

RESULT   13
US-09-041-886-32
; Sequence 32, Application US/09041886
; Patent No. 6235872
; GENERAL INFORMATION:
;         APPLICANT: Bredesen, Dale E.
;         APPLICANT: Rabizadeh, Sharroz
;         TITLE OF INVENTION: Proapoptotic Peptides, Dependence
;         TITLE OF INVENTION: Polypeptides and Methods of Use
;         NUMBER OF SEQUENCES: 72
;         CORRESPONDENCE ADDRESS:
;         ADDRESSEE: Campbell & Flores LLP
;         STREET: 4370 La Jolla Village Drive, Suite 700
;         CITY: San Diego
;         STATE: California
;         COUNTRY: United States
;         ZIP: 92122
;         COMPUTER READABLE FORM:
;         MEDIUM TYPE: Floppy disk
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        COMPUTER: IBM PC compatible
        OPERATING SYSTEM: PC-DOS/MS-DOS
        SOFTWARE: PatentIn Release #1.0, Version #1.25
    CURRENT APPLICATION DATA:
        APPLICATION NUMBER: US/09/041,886
        FILING DATE:
        CLASSIFICATION:
    ATTORNEY/AGENT INFORMATION:
        NAME: Campbell, Cathryn A.
        REGISTRATION NUMBER: 31,815
        REFERENCE/DOCKET NUMBER: P-LJ 2626
    TELECOMMUNICATION INFORMATION:
        TELEPHONE: (619) 535-9001
        TELEFAX: (619) 535-8949
    SEQUENCE CHARACTERISTICS:
        LENGTH: 154 amino acids
        TYPE: amino acid
        TOPOLOGY: linear
        MOLECULE TYPE: peptide
US-09-041-886-32


Query Match             16.2%;  Score 795;  DB 4;  Length 154;
Best Local Similarity   95.1%;  Pred. No. 1.5e-51;  Indels 8;  Gaps 1;
Matches 154;  Conservative 0;  Mismatches 0;

Qy    1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAASAAPPGASLLLLQQQ 60
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAASAAPPGASLLLL--- 57

Qy   61 QQQQQQQQQQQQQQQQQQQQETSPRQQQQQQQGEDGSPQAHRRGPTGYLVLDEEQQPSQ 120
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   58 ----QQQQQQQQQQQQQQQQETSPRQQQQQQQGEDGSPQAHRRGPTGYLVLDEEQQPSQ 112

Qy  121 PQSALECHPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAA 162
         |||||||||||||||||||||||||||||||||||||||||
Db  113 PQSALECHPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAA 154


RESULT 14
US-08-875-223-8
; Sequence 8, Application US/08875223
; Patent No. 6127175
; GENERAL INFORMATION:
    APPLICANT: VIGNE, Emmanuelle
    APPLICANT: PERRICAUDET, Michel
    APPLICANT: DEDIEU, Jean-Francois
    APPLICANT: ORSINI, Cecile
    APPLICANT: YEH, Patrice
    APPLICANT: LATTA, Martine
    APPLICANT: PROST, Edouard
    TITLE OF INVENTION: CELLS FOR THE PRODUCTION OF RECOMBINANT
    TITLE OF INVENTION: ADENOVIRUSES
    NUMBER OF SEQUENCES: 8
    CORRESPONDENCE ADDRESS:
        ADDRESSEE: Rhone-Poulenc Rorer Inc.
        STREET: 500 Arcola Road, Mailstop 3C43
        CITY: Collegeville
        STATE: PA
        COUNTRY: USA
        ZIP: 19426
    COMPUTER READABLE FORM:
        MEDIUM TYPE: Floppy disk
        COMPUTER: IBM PC compatible
        OPERATING SYSTEM: PC-DOS/MS-DOS
        SOFTWARE: PatentIn Release #1.0, Version #1.30
    CURRENT APPLICATION DATA:
        APPLICATION NUMBER: US/08/875,223
        FILING DATE:
        CLASSIFICATION:
    PRIOR APPLICATION DATA:
        APPLICATION NUMBER: FR 95/00747
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        FILING DATE: 20-JAN-1995
    PRIOR APPLICATION DATA:
        APPLICATION NUMBER: FR 95/06532
        FILING DATE: 01-JUN-1995
    PRIOR APPLICATION DATA:
        APPLICATION NUMBER: FR 95/10541
        FILING DATE: 08-SEP-1995
    PRIOR APPLICATION DATA:
        APPLICATION NUMBER: FR WO FR96/00088
        FILING DATE: 19-JAN-1996
    ATTORNEY/AGENT INFORMATION:
        NAME: Fehlner Esq, Paul F.
        REGISTRATION NUMBER: 35,135
        REFERENCE/DOCKET NUMBER: ST95005G1-US
    TELECOMMUNICATION INFORMATION:
        TELEPHONE: (610) 454-3839
        TELEFAX: (610) 454-3808
INFORMATION FOR SEQ ID NO: 8:
    SEQUENCE CHARACTERISTICS:
        LENGTH: 534 amino acids
        TYPE: amino acid
        STRANDEDNESS: single
        TOPOLOGY: linear
        MOLECULE TYPE: protein
US-08-875-223-8

Query Match             13.1%;  Score 644.5;  DB 3;  Length 534;
Best Local Similarity   51.3%;  Pred. No. 1.1e-39;
Matches 122;  Conservative 46;  Mismatches 69;  Indels 1;  Gaps 1;

Qy  684 IEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQY 743
         ||| ::|| :: ||   ||| :::|| ||::: ||||||||:|||:||| ::||: ::||
Db    3 IEPEVLYAGYDSSVPDSTWRIMTLNMLGGRQVIAAVKWAKAIPGFRNLHLDDQMTLLQY 62

Qy  744 SWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQI 803
         ||| || :| ||||:  : ::||| ||||:: || :|| : :||  ::|  :| :|:|:
Db   63 SWMFLMAFALGWRSYRQSSANLLCFAPDLIINEQRMTLPCMYDQCKHMLYVSSELHRLQV 122

Qy  804 TPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIACKRRKNPTSCSRRPYQL 863
         : :::|||: |:| ||| ::|||: ||: ||: :|||||: : |::: :::   :|||||
Db  123 SYEEYLCMKTLLLLSSVPKDGLKSQELFDEIRMTYIKELGKAIVKREGNSSQNWQRFYQL 182

Qy  864 TKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFH 921
         |||||: :: :| ||:| :|: ::| ||:|||:||:|::|:: :||: ::||: :: ||
Db  183 TKLLDSMHEVENLLNYCFQTFLDKTM-SIEFPEMLAEIITNQIPKYSNGNIKKLLFH 239


RESULT 15
US-08-592-214A-24
; Sequence 24, Application US/08592214A
; Patent No. 5811536
; GENERAL INFORMATION:
    APPLICANT: Yanofsky, Martin F.
    TITLE OF INVENTION: Cauliflower Floral Meristem Identify
    TITLE OF INVENTION: Genes and Methods of Using Same
    NUMBER OF SEQUENCES: 33
    CORRESPONDENCE ADDRESS:
        ADDRESSEE: Campbell and Flores
        STREET: 4370 La Jolla Village Drive, Suite 700
        CITY: San Diego
        STATE: California
        COUNTRY: United States
        ZIP: 92122
    COMPUTER READABLE FORM:
        MEDIUM TYPE: Floppy disk
        COMPUTER: IBM PC compatible
        OPERATING SYSTEM: PC-DOS/MS-DOS
        SOFTWARE: PatentIn Release #1.0, Version #1.25
    CURRENT APPLICATION DATA:
        APPLICATION NUMBER: US/08/592,214A
        FILING DATE: 26-JAN-1996
        CLASSIFICATION: 536
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us-09-497-822a-19.rai

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;     ATTORNEY/AGENT INFORMATION:
;        NAME:  Campbell, Cathryn A.
;        REGISTRATION NUMBER:  31,815
;        REFERENCE/DOCKET NUMBER:  P-UD 1927
;     TELECOMMUNICATION INFORMATION:
;        TELEPHONE:  (619) 535-9001
;        TELEFAX:  (619) 535-8949
;  INFORMATION FOR SEQ ID NO:  24:
;     SEQUENCE CHARACTERISTICS:
;        LENGTH:  284 amino acids
;        TYPE:  amino acid
;        TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-592-214A-24
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Query Match           13.1%;     Score 644;  DB 2;  Length 284;
Best Local Similarity  44.4%;    Pred. No. 4.9e-40;
Matches 127;  Conservative  56;  Mismatches  97;  Indels  6;  Gaps  2;

Qy   636 KKLGNLKLQEEGEASSTTSPTEETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDN 695
             ||:  ::  |:  :|  |::  :|       :  :   |  :::||  ||| |:  ||:|:  |
Db     3 KKIKGIQQATAGVSQDTSENPNKTIVPAALPQL----TPTLVSLLEVIEPEVLYAGYDS  57

Qy   696 NQPDSFAALLSSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGW 755
           : ||| |||:::|| |:::  ||||||:  | |||:|||| ::|||| || ||:||
Db    58 SVPDSAWRIMTTLNMLGGGRQVIAAVKWAKAILGLRNLHLDDQMTLLQYSWMFLMAFALGW 117

Qy   756 RSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALL 815
           |:  : :| ||||: || ||   | | :|  |  || :  |  |  | :|||| ||
Db   118 RSYRQSSGNLLCFAPDLIINEQRMSLPCMYDQCKHMLFVSSELQRLQVSYEEYLCMKTLL 177

Qy   816 LFSIIPVDGLKNQKFFDELRMNYIKELDRIITACKRKNPTSCSRRFYQLTKLLDSVQPIAR 875
           | :|  :|||:||: |||:|| ||||  :|  :  |  : :||||||||||:
Db   178 LLSSVPKEGLKSQELFDEIRMTYIKELGKAIVKREGNSSQNWQRFYQLTKLLDSMHEVVE 237

Qy   876 ELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFH 921
           | |  :  | | :||||:|||| :|| :| :| : || |
Db   238 NLLTYCFQTFLDKTM-SIEFPEMLAEIITNQIPKYSNGNIKKLLFH 282
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Search completed: January 3, 2002, 23:06:44
Job time: 5485 sec